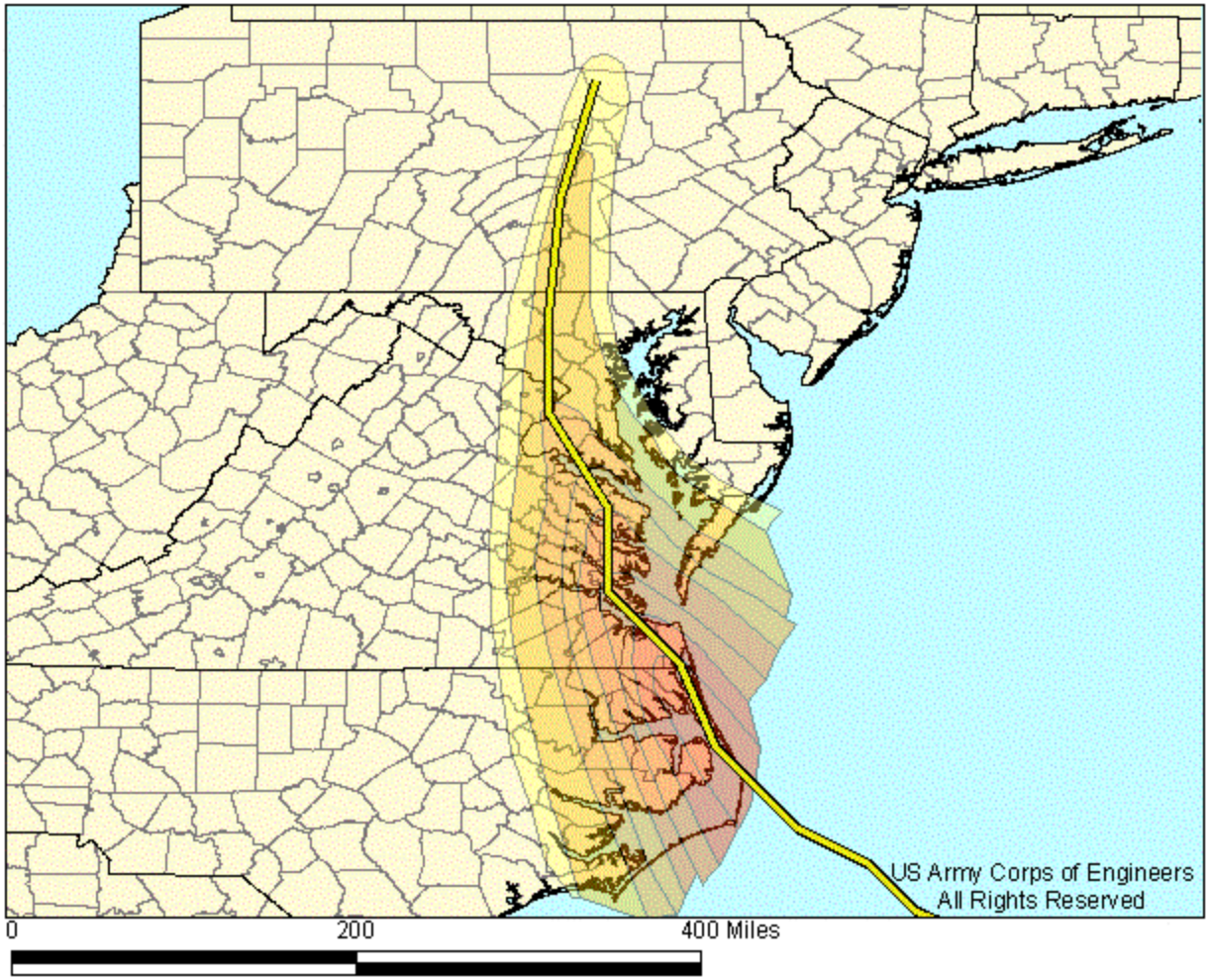
Hurricane Zoe 2008 Projected Damage Areas

US Army Corps of Engineers

Landfall Plus About 24 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 4 storm making landfall on coastal North Carolina.

Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 4 storm making landfall on coastal North Carolina. These projections are based on information from the NHC (1100 EDT 05/08/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

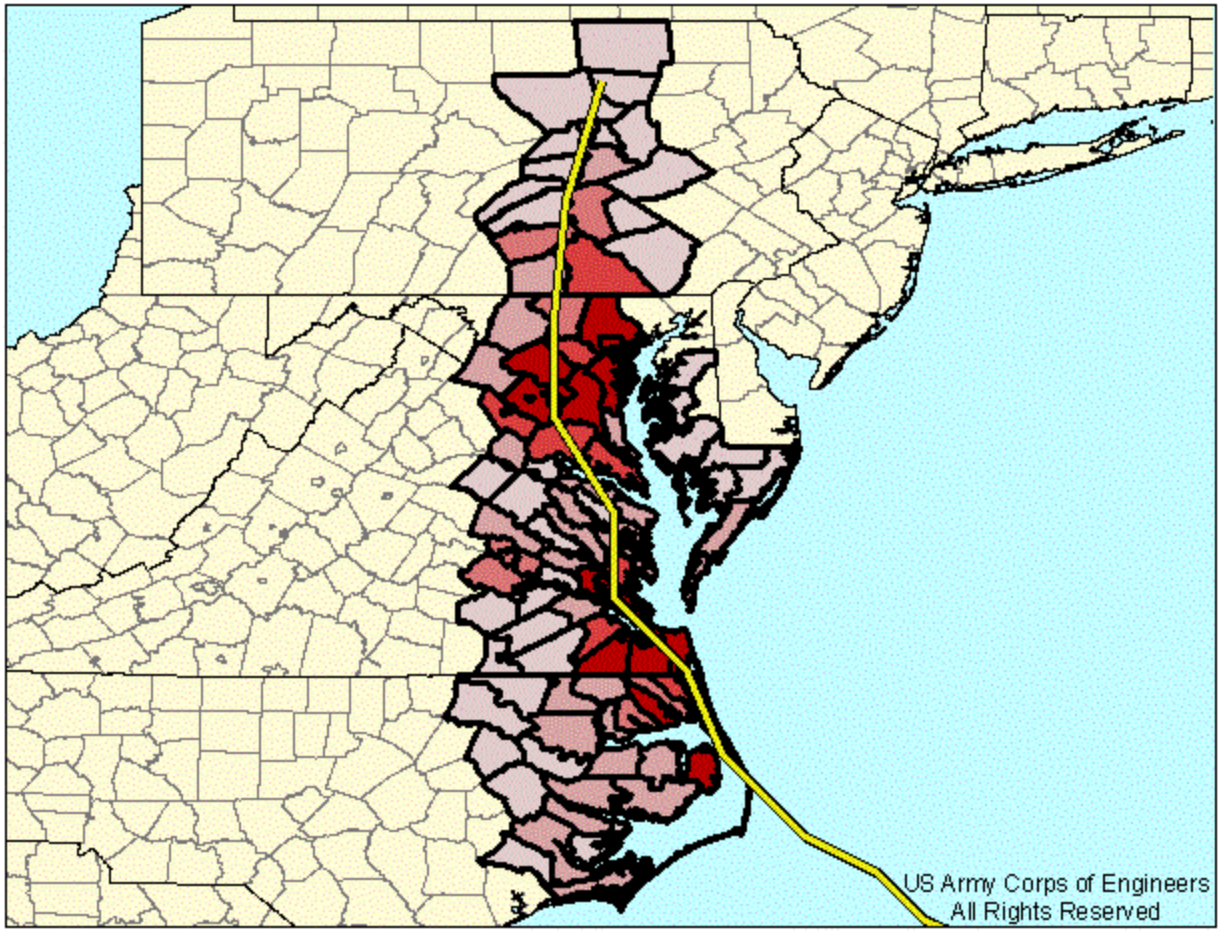
Hurricane Zoe 2008 Projected Damage Areas	
Generated By: Siemsen, LRL 1130 EDT 05/08/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 19

US Army Corps of Engineers

Hurricane Zoe 2008 Debris Model

Landfall Plus About 24 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Virginia - 56,384,000 Yards
Maryland - 11,089,000 Yards
North Carolina - 6,043,000 Yards
Pennsylvania - 1,979,000 Yards
District of Columbia - 1,454,000 Yards

Model results per County on following page

This model is based on a Category 4 storm making landfall on coastal North Carolina.

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 4 storm making landfall on coastal North Carolina. These projections are based on information from the NHC (1100 EDT 05/08/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Zoe 2008 Debris Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Debris Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
District of Columbia		District of Columbia	1,454,000
District of Columbia	1,454,000		
Maryland		Anne Arundel	1,004,000
		Baltimore	1,192,000
		Baltimore City	1,117,000
		Calvert	216,000
		Carroll	358,000
		Charles	809,000
		Dorchester	15,000
		Frederick	196,000
		Howard	744,000
		Montgomery	2,498,000
		Prince George's	2,376,000
		Queen Anne's	6,000
		Somerset	25,000
		St Mary's	519,000
		Talbot	6,000
		Wicomico	< 1,000
		Worcester	8,000
Maryland	11,089,000		
North Carolina		Beaufort	175,000
		Bertie	107,000
		Camden	381,000
		Carteret	159,000
		Chowan	174,000
		Craven	141,000
		Currituck	930,000
		Dare	1,494,000
		Edgecombe	2,000

State	Yards per State	County	Yards per County
North Carolina		Gates	169,000
(continued)		Halifax	7,000
		Hertford	115,000
		Hyde	193,000
		Jones	2,000
		Martin	57,000
		Northampton	32,000
		Pamlico	48,000
		Pasquotank	1,228,000
		Perquimans	283,000
		Pitt	25,000
		Tyrrell	180,000
		Washington	141,000
North Carolina	6,043,000		
Pennsylvania		Adams	161,000
		Bradford	5,000
		Columbia	11,000
		Cumberland	337,000
		Dauphin	463,000
		Juniata	4,000
		Lancaster	25,000
		Lebanon	20,000
		Lycoming	50,000
		Montour	19,000
		Northumberland	105,000
		Perry	53,000
		Schuylkill	4,000
		Snyder	48,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Debris Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Debris Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Pennsylvania		Sullivan	7,000
(continued)		Union	31,000
		York	636,000
Pennsylvania	1,979,000		
Virginia		Accomack	107,000
		Alexandria city	494,000
		Arlington	678,000
		Caroline	62,000
		Charles City	50,000
		Chesapeake city	6,785,000
		Chesterfield	320,000
		Colonial Heights city	54,000
		Dinwiddie	26,000
		Emporia City	5,000
		Essex	105,000
		Fairfax	2,491,000
		Fairfax City	61,000
		Falls Church city	36,000
		Franklin City	53,000
		Fredericksburg city	30,000
		Gloucester	806,000
		Greensville	5,000
		Hampton City	3,871,000
		Hanover	168,000
		Henrico	464,000
		Hopewell City	69,000
		Isle Of Wight	609,000
		James City	1,075,000
		King And Queen	101,000
		King George	78,000

State	Yards per State	County	Yards per County
Virginia		King William	93,000
(continued)		Lancaster	203,000
		Loudoun	157,000
		Manassas City	39,000
		Manassas Park city	14,000
		Mathews	186,000
		Middlesex	216,000
		New Kent	118,000
		Newport News city	6,495,000
		Norfolk City	8,566,000
		Northampton	148,000
		Northumberland	152,000
		Petersburg city	92,000
		Poquoson City	282,000
		Portsmouth city	3,696,000
		Prince George	81,000
		Prince William	542,000
		Richmond	94,000
		Richmond City	391,000
		Southampton	98,000
		Spotsylvania	56,000
		Stafford	120,000
		Suffolk City	1,477,000
		Surry	110,000
		Sussex	58,000
		Virginia Beach city	15,576,000
		Westmoreland	148,000
		Williamsburg city	183,000
		York	1,390,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Debris Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Debris Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Virginia	56,384,000		
(continued)			

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Debris Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

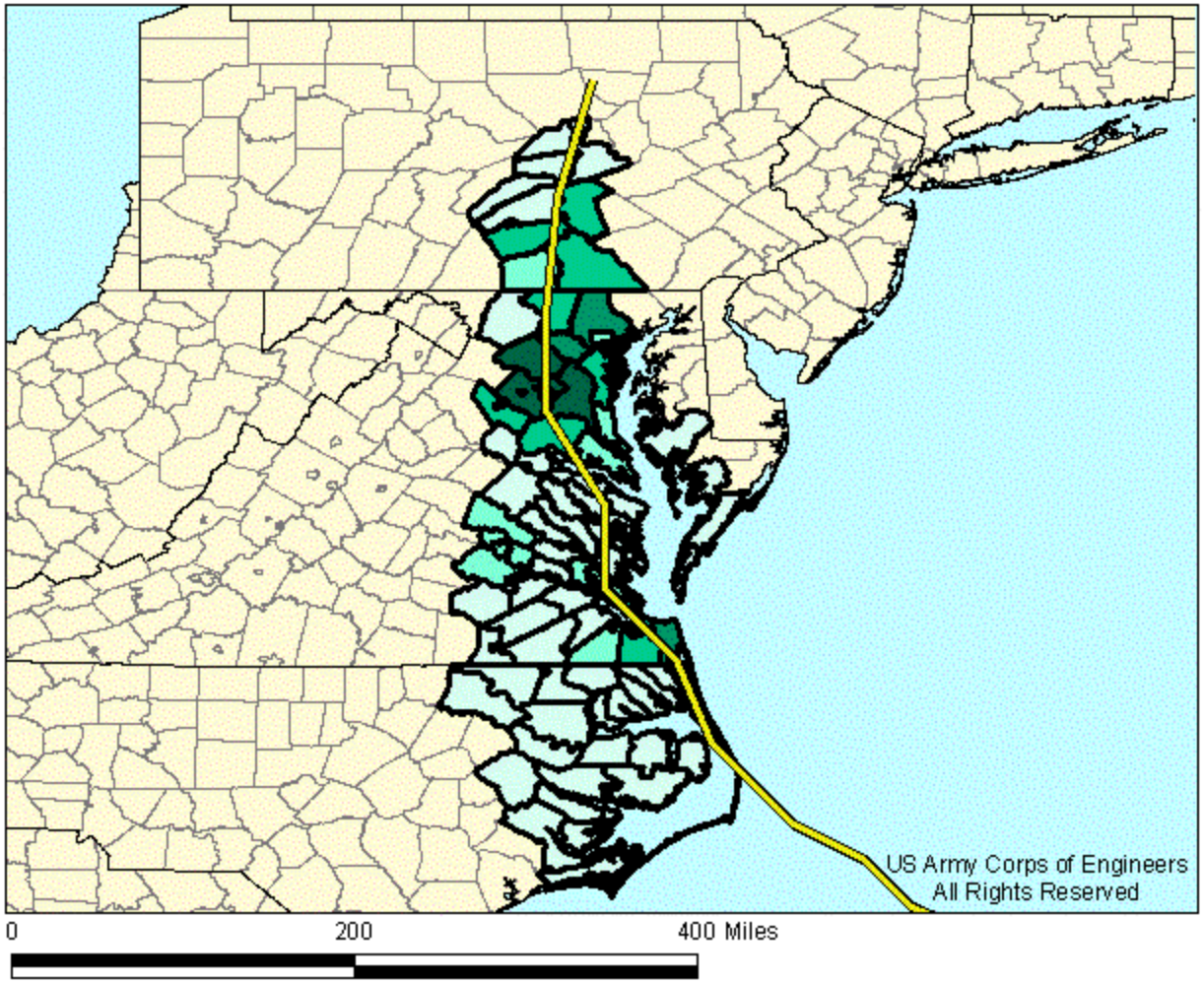
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Commodities Model

Landfall Plus About 24 Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three

VA – 78/157/304 Truckloads
MD – 66/132/265 Truckloads
PA – 14/28/56 Truckloads
DC – 12/24/47 Truckloads
NC – 10/20/40 Truckloads

Model results per County on following page

This model is based on a Category 4 storm making landfall on coastal North Carolina.

Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 4 storm making landfall on coastal North Carolina. These projections are based on information from the NHC ***(1100 EDT 05/08/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Zoe 2008 Commodities Model	
Generated By: Siemsen, LRL 1130 EDT 05/08/2008	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 19

US Army Corps of Engineers

Hurricane Zoe 2008 Commodities Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
District of Columbia		District of Columbia	47
District of Columbia	47		
Maryland		Anne Arundel	19
		Baltimore	25
		Baltimore City	10
		Calvert	8
		Carroll	14
		Charles	12
		Dorchester	1
		Frederick	3
		Howard	22
		Montgomery	74
		Prince George's	68
		Somerset	1
		St Mary's	8
Maryland	265		
North Carolina		Beaufort	4
		Bertie	2
		Camden	1
		Carteret	4
		Chowan	2
		Craven	3
		Currituck	2
		Dare	3
		Gates	1
		Halifax	1
		Hertford	2
		Hyde	1
		Martin	2

State	Truckloads per State	County	Truckloads per County
North Carolina		Northampton	1
(continued)		Pamlico	2
		Pasquotank	4
		Perquimans	1
		Pitt	1
		Tyrrell	1
		Washington	2
North Carolina	40		
Pennsylvania		Adams	5
		Cumberland	12
		Dauphin	15
		Juniata	1
		Northumberland	2
		Perry	2
		Snyder	2
		Union	1
		York	16
Pennsylvania	56		
Virginia		Accomack	3
		Alexandria city	12
		Arlington	17
		Caroline	2
		Charles City	1
		Chesapeake city	18
		Chesterfield	5
		Colonial Heights city	2
		Dinwiddie	1

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Commodities Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Commodities Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Virginia		Essex	1
(continued)		Fairfax	58
		Fairfax City	2
		Falls Church city	1
		Franklin City	1
		Gloucester	4
		Greensville	1
		Hampton City	12
		Hanover	6
		Henrico	7
		Hopewell City	2
		Isle Of Wight	3
		James City	5
		King And Queen	1
		King George	2
		King William	2
		Lancaster	1
		Mathews	1
		Middlesex	1
		New Kent	2
		Newport News city	15
		Norfolk City	19
		Northampton	2
		Northumberland	2
		Petersburg city	3
		Poquoson City	1
		Portsmouth city	9
		Prince George	3
		Prince William	14
		Richmond	1
		Richmond City	5

State	Truckloads per State	County	Truckloads per County
Virginia		Southampton	2
(continued)		Stafford	1
		Suffolk City	7
		Surry	1
		Sussex	1
		Virginia Beach city	35
		Westmoreland	2
		Williamsburg city	1
		York	5
Virginia	304		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Commodities Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

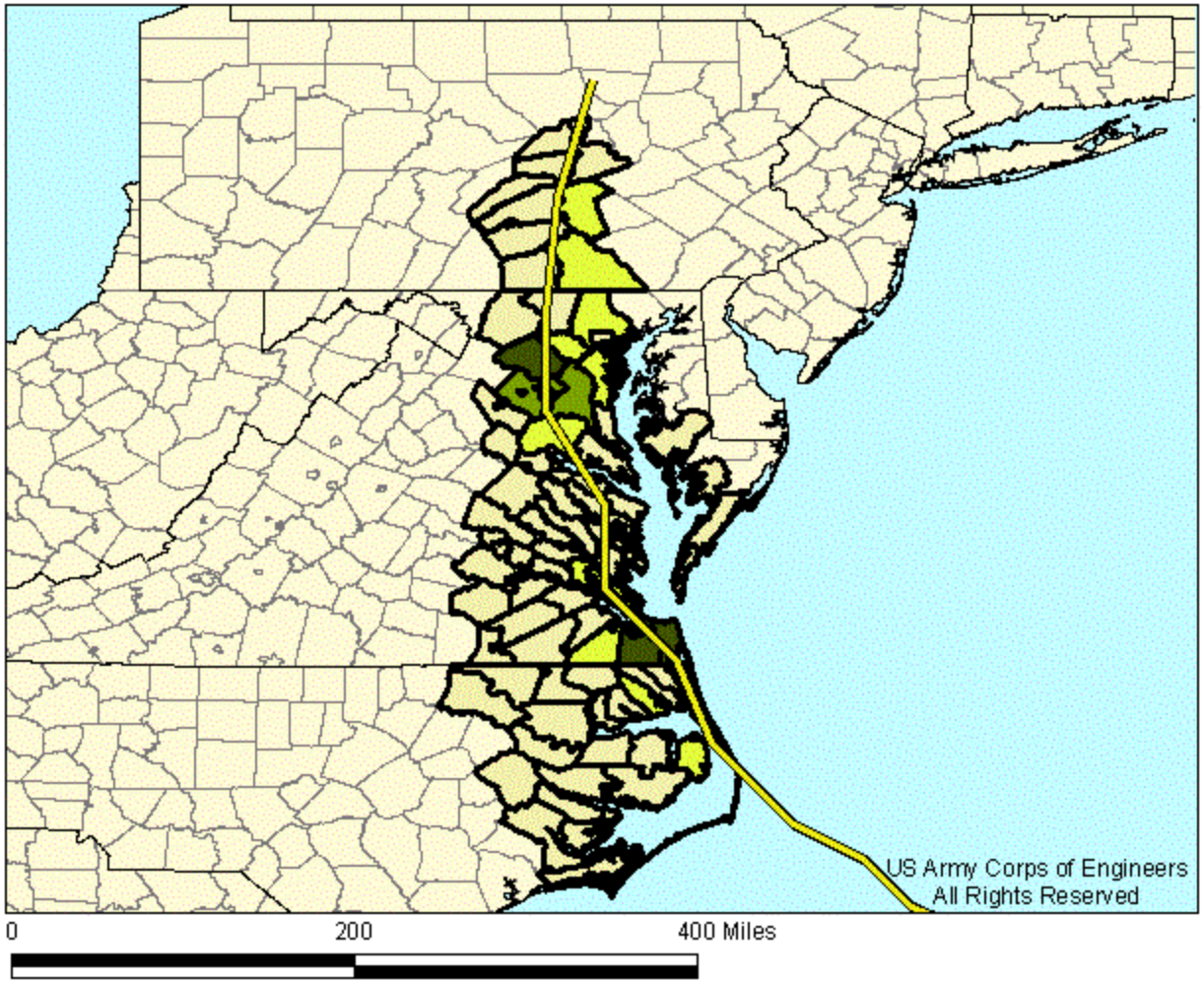
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Temporary Roofing Model

Landfall Plus About 24 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Virginia – 107,800
Maryland - 38,400
North Carolina - 11,900
Pennsylvania - 7,900
District of Columbia - 7,700

Model results per County on following page

This model is based on a Category 4 storm making landfall on coastal North Carolina.

Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall on coastal North Carolina. These projections are based on information from the NHC (1100 EDT 05/08/2008) forecast. Temporary roofing is based on 3% in CAT 1, 6% in CAT 2, 10% in CAT 3 and 16% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Zoe 2008 Roofing Model	
Generated By: Siemsen, LRL 1130 EDT 05/08/2008	
Sources: HURREVAC LRL-DEBRIS	Page 9 of 19

US Army Corps of Engineers

Hurricane Zoe 2008 Temporary Roofing Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
District of Columbia		District of Columbia	7,700
District of Columbia	7,700		
Maryland		Anne Arundel	2,500
		Baltimore	3,600
		Baltimore City	1,500
		Calvert	1,000
		Carroll	1,800
		Charles	2,900
		Dorchester	< 100
		Frederick	300
		Howard	3,000
		Montgomery	10,200
		Prince George's	9,600
		Somerset	< 100
		St Mary's	2,000
Maryland	38,400		
North Carolina		Beaufort	600
		Bertie	400
		Camden	600
		Carteret	700
		Chowan	500
		Craven	300
		Currituck	1,500
		Dare	2,300
		Gates	400
		Halifax	< 100
		Hertford	500
		Hyde	200
		Martin	300

State	House Units per State	County	House Units per County
North Carolina		Northampton	< 100
(continued)		Pamlico	200
		Pasquotank	2,200
		Perquimans	600
		Pitt	< 100
		Tyrrell	200
		Washington	400
North Carolina	11,900		
Pennsylvania		Adams	700
		Cumberland	1,700
		Dauphin	2,300
		Juniata	< 100
		Northumberland	300
		Perry	200
		Snyder	300
		Union	< 100
		York	2,400
Pennsylvania	7,900		
Virginia		Accomack	400
		Alexandria city	2,000
		Arlington	2,800
		Caroline	200
		Charles City	200
		Chesapeake city	11,600
		Chesterfield	700
		Colonial Heights city	300
		Dinwiddie	< 100

Temporary roofing is based on 3% in CAT 1, 6% in CAT 2, 10% in CAT 3 and 16% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Roofing Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Temporary Roofing Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Virginia		Essex	300
(continued)		Fairfax	8,600
		Fairfax City	300
		Falls Church city	200
		Franklin City	300
		Gloucester	1,500
		Greensville	< 100
		Hampton City	5,400
		Hanover	800
		Henrico	1,100
		Hopewell City	300
		Isle Of Wight	1,300
		James City	2,300
		King And Queen	300
		King George	400
		King William	300
		Lancaster	500
		Mathews	400
		Middlesex	500
		New Kent	400
		Newport News city	8,300
		Norfolk City	13,500
		Northampton	500
		Northumberland	400
		Petersburg city	400
		Poquoson City	500
		Portsmouth city	5,800
		Prince George	400
		Prince William	1,800
		Richmond	300
		Richmond City	800

State	House Units per State	County	House Units per County
Virginia		Southampton	400
(continued)		Stafford	< 100
		Suffolk City	2,900
		Surry	200
		Sussex	200
		Virginia Beach city	24,900
		Westmoreland	500
		Williamsburg city	400
		York	2,200
Virginia	107,800		

Temporary roofing is based on 3% in CAT 1, 6% in CAT 2, 10% in CAT 3 and 16% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Roofing Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

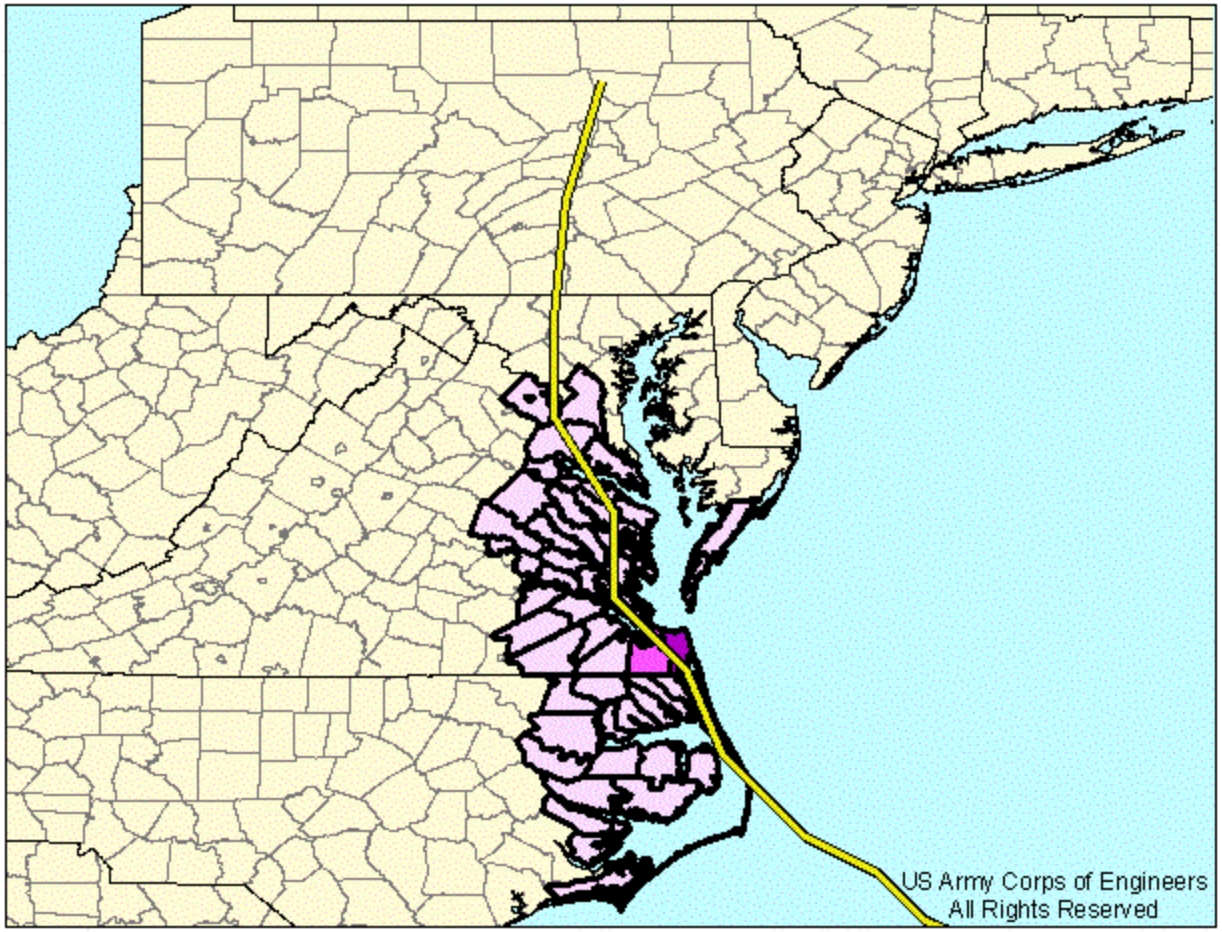
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Temporary Housing Model

Landfall Plus About **24** Hours

For Planning Purposes Only!



Post Landfall Temporary Housing Model Results

Virginia - 35,600
North Carolina - 2,700
Maryland - 1,100

Model results per County on following page

This model is based on a Category 4 storm making landfall on coastal North Carolina.

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall on coastal North Carolina. These projections are based on information from the NHC (1100 EDT 05/08/2008) forecast. Temporary housing is based on 1% in CAT 2, 3% in CAT 3 and 6% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Zoe 2008 Housing Model	
Generated By: Siemsen, LRL 1130 EDT 05/08/2008	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Zoe 2008 Temporary Housing Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Maryland		Charles	500
		Prince George's	200
		St Mary's	400
Maryland	1,100		
North Carolina		Beaufort	< 100
		Bertie	< 100
		Camden	200
		Carteret	< 100
		Chowan	< 100
		Currituck	600
		Dare	900
		Gates	< 100
		Hertford	< 100
		Hyde	< 100
		Martin	< 100
		Pamlico	< 100
		Pasquotank	800
		Perquimans	200
		Tyrrell	< 100
		Washington	< 100
North Carolina	2,700		
Virginia		Accomack	< 100
		Caroline	< 100
		Charles City	< 100
		Chesapeake city	4,300
		Essex	< 100
		Fairfax	300
		Franklin City	< 100
		Gloucester	500

State	House Units per State	County	House Units per County
Virginia		Hampton City	1,700
(continued)		Hanover	< 100
		Henrico	< 100
		Isle Of Wight	400
		James City	700
		King And Queen	< 100
		King George	< 100
		King William	< 100
		Lancaster	200
		Mathews	200
		Middlesex	200
		New Kent	< 100
		Newport News city	2,500
		Norfolk City	5,100
		Northampton	100
		Northumberland	< 100
		Poquoson City	200
		Portsmouth city	2,100
		Prince George	< 100
		Richmond	< 100
		Southampton	< 100
		Suffolk City	900
		Surry	< 100
		Sussex	< 100
		Virginia Beach city	9,300
		Westmoreland	< 100
		Williamsburg city	200
		York	700
Virginia	35,600		

Temporary housing is based on 1% in CAT 2, 3% in CAT 3 and 6% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Housing Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

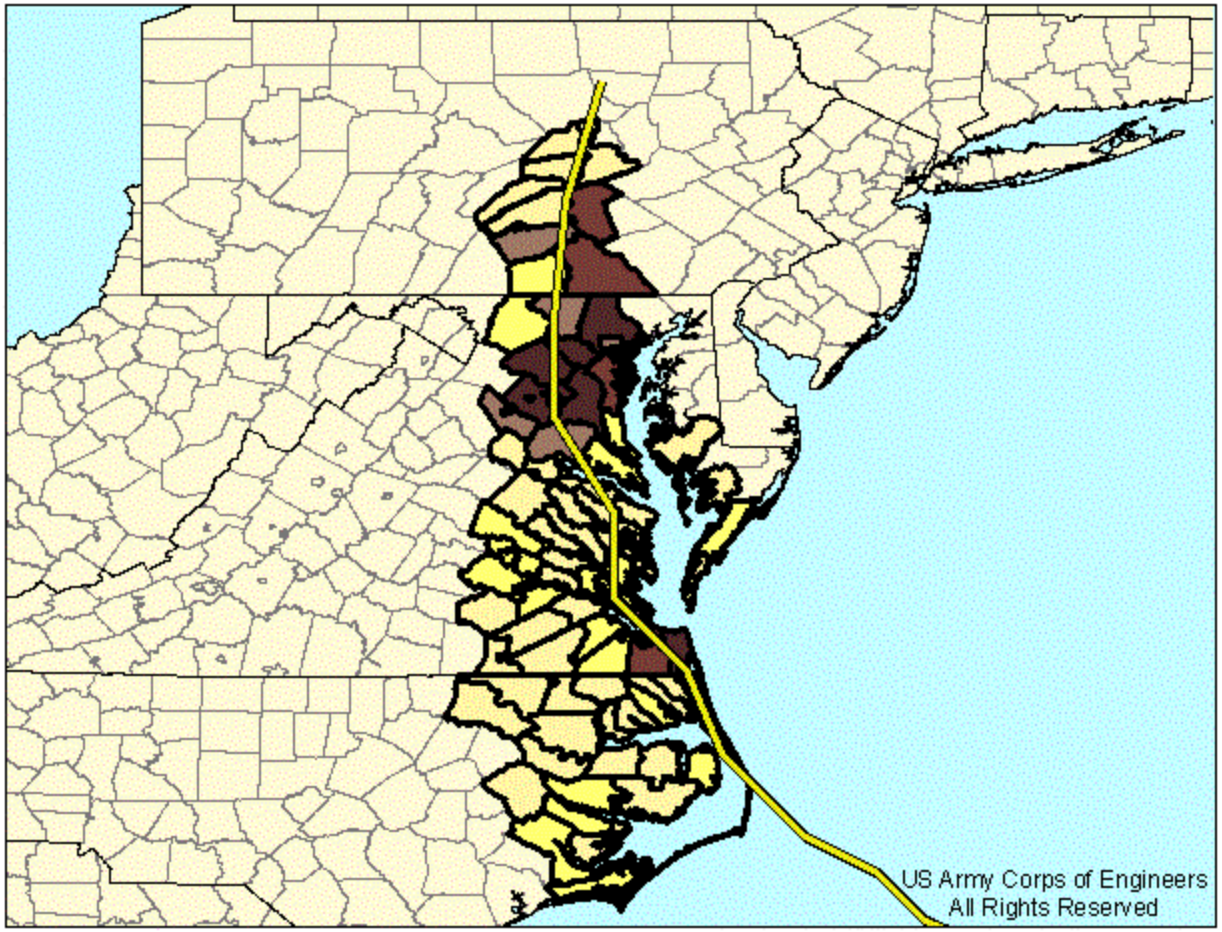
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Population Model

Landfall Plus About 24 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Virginia - 3,524,000
Maryland - 3,219,000
Pennsylvania - 646,000
District of Columbia - 586,000
North Carolina - 372,000

Model results per County on following page

This model is based on a Category 4 storm making landfall on coastal North Carolina.

Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 4 storm making landfall on coastal North Carolina. These projections are based on information from the NHC (1100 EDT 05/08/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Zoe 2008 Population Model	
Generated By: Siemsen, LRL 1130 EDT 05/08/2008	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Zoe 2008 Population Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
District of Columbia		District of Columbia	586,000
District of Columbia	586,000		
Maryland		Anne Arundel	232,000
		Baltimore	301,000
		Baltimore City	125,000
		Calvert	89,000
		Carroll	169,000
		Charles	141,000
		Dorchester	2,000
		Frederick	28,000
		Howard	273,000
		Montgomery	913,000
		Prince George's	841,000
		Somerset	6,000
		St Mary's	99,000
Maryland	3,219,000		
North Carolina		Beaufort	42,000
		Bertie	19,000
		Camden	10,000
		Carteret	48,000
		Chowan	15,000
		Craven	28,000
		Currituck	24,000
		Dare	34,000
		Gates	12,000
		Halifax	< 1,000
		Hertford	24,000
		Hyde	6,000
		Martin	18,000

State	Population per State	County	Population per County
North Carolina		Northampton	7,000
(continued)		Pamlico	13,000
		Pasquotank	40,000
		Perquimans	13,000
		Pitt	< 1,000
		Tyrrell	5,000
		Washington	14,000
North Carolina	372,000		
Pennsylvania		Adams	61,000
		Cumberland	140,000
		Dauphin	181,000
		Juniata	< 1,000
		Northumberland	23,000
		Perry	17,000
		Snyder	22,000
		Union	2,000
		York	200,000
Pennsylvania	646,000		
Virginia		Accomack	26,000
		Alexandria city	138,000
		Arlington	201,000
		Caroline	14,000
		Charles City	8,000
		Chesapeake city	221,000
		Chesterfield	59,000
		Colonial Heights city	18,000
		Dinwiddie	2,000

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Population Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Population Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Virginia		Essex	11,000
(continued)		Fairfax	718,000
		Fairfax City	22,000
		Falls Church city	11,000
		Franklin City	9,000
		Gloucester	39,000
		Greensville	< 1,000
		Hampton City	146,000
		Hanover	64,000
		Henrico	85,000
		Hopewell City	23,000
		Isle Of Wight	35,000
		James City	60,000
		King And Queen	7,000
		King George	22,000
		King William	16,000
		Lancaster	12,000
		Mathews	10,000
		Middlesex	11,000
		New Kent	17,000
		Newport News city	186,000
		Norfolk City	229,000
		Northampton	14,000
		Northumberland	13,000
		Petersburg city	33,000
		Poquoson City	12,000
		Portsmouth city	102,000
		Prince George	37,000
		Prince William	166,000
		Richmond	10,000
		Richmond City	63,000

State	Population per State	County	Population per County
Virginia		Southampton	18,000
(continued)		Stafford	7,000
		Suffolk City	82,000
		Surry	8,000
		Sussex	11,000
		Virginia Beach city	436,000
		Westmoreland	18,000
		Williamsburg city	12,000
		York	62,000
Virginia	3,524,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Population Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

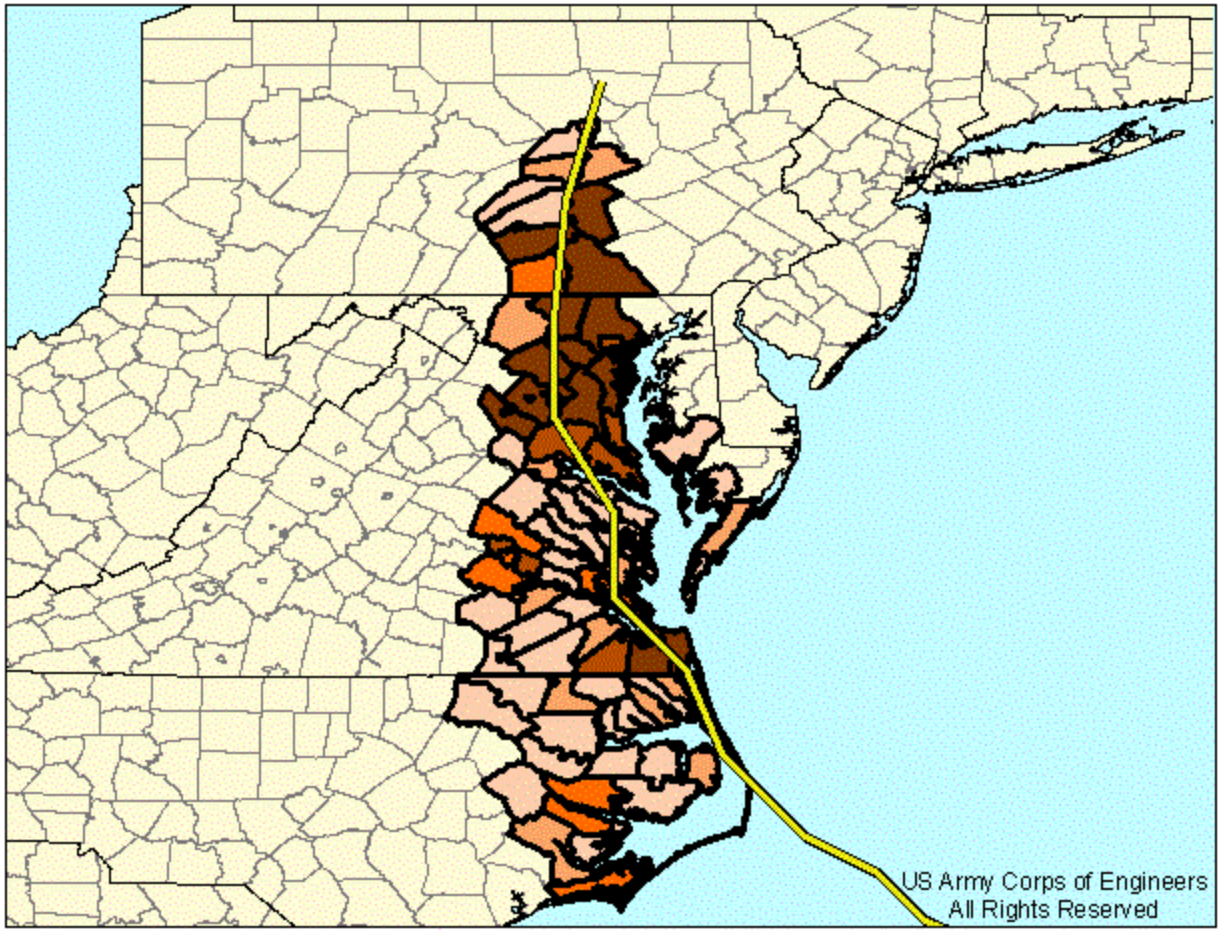
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Households Model

Landfall Plus About 24 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

Virginia - 1,357,000
Maryland - 1,178,000
Pennsylvania - 257,000
District of Columbia - 255,000
North Carolina - 153,000

Model results per County on following page

This model is based on a Category 4 storm making landfall on coastal North Carolina.

Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 4 storm making landfall on coastal North Carolina. These projections are based on information from the NHC (1100 EDT 05/08/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Zoe 2008 Households Model	
Generated By: Siemsen, LRL 1130 EDT 05/08/2008	
Sources: HURREVAC LRL-DEBRIS	Page 17 of 19

US Army Corps of Engineers

Hurricane Zoe 2008 Households Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
District of Columbia		District of Columbia	255,000
District of Columbia	255,000		
Maryland		Anne Arundel	83,000
		Baltimore	118,000
		Baltimore City	49,000
		Calvert	31,000
		Carroll	59,000
		Charles	49,000
		Dorchester	< 1,000
		Frederick	10,000
		Howard	99,000
		Montgomery	340,000
		Prince George's	301,000
		Somerset	3,000
		St Mary's	36,000
Maryland	1,178,000		
North Carolina		Beaufort	17,000
		Bertie	8,000
		Camden	4,000
		Carteret	21,000
		Chowan	6,000
		Craven	9,000
		Currituck	10,000
		Dare	15,000
		Gates	5,000
		Halifax	< 1,000
		Hertford	10,000
		Hyde	3,000
		Martin	7,000

State	Households per State	County	Households per County
North Carolina		Northampton	3,000
(continued)		Pamlico	6,000
		Pasquotank	15,000
		Perquimans	6,000
		Pitt	< 1,000
		Tyrrell	2,000
		Washington	6,000
North Carolina	153,000		
Pennsylvania		Adams	23,000
		Cumberland	56,000
		Dauphin	75,000
		Juniata	< 1,000
		Northumberland	10,000
		Perry	7,000
		Snyder	8,000
		Union	< 1,000
		York	78,000
Pennsylvania	257,000		
Virginia		Accomack	10,000
		Alexandria city	67,000
		Arlington	92,000
		Caroline	5,000
		Charles City	3,000
		Chesapeake city	78,000
		Chesterfield	22,000
		Colonial Heights city	8,000
		Dinwiddie	< 1,000

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Households Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Zoe 2008 Households Model

Landfall Plus About 24 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Virginia		Essex	5,000
(continued)		Fairfax	262,000
		Fairfax City	8,000
		Falls Church city	5,000
		Franklin City	4,000
		Gloucester	15,000
		Greensville	< 1,000
		Hampton City	54,000
		Hanover	23,000
		Henrico	34,000
		Hopewell City	10,000
		Isle Of Wight	14,000
		James City	24,000
		King And Queen	3,000
		King George	8,000
		King William	6,000
		Lancaster	5,000
		Mathews	4,000
		Middlesex	5,000
		New Kent	7,000
		Newport News city	83,000
		Norfolk City	85,000
		Northampton	6,000
		Northumberland	6,000
		Petersburg city	14,000
		Poquoson City	5,000
		Portsmouth city	39,000
		Prince George	12,000
		Prince William	58,000
		Richmond	4,000
		Richmond City	24,000

State	Households per State	County	Households per County
Virginia		Southampton	7,000
(continued)		Stafford	3,000
		Suffolk City	30,000
		Surry	3,000
		Sussex	4,000
		Virginia Beach city	159,000
		Westmoreland	8,000
		Williamsburg city	4,000
		York	22,000
Virginia	1,357,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Zoe 2008 Households Model

Generated By:
Siemsen, LRL 1130 EDT 05/08/2008

Sources:
HURREVAC
LRL-DEBRIS